

## 6-Dehydrogingerdione

## Chemical Properties

CAS No. : 76060-35-0

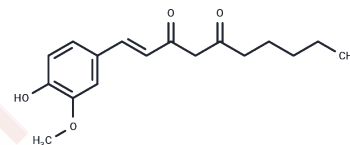
Formula: C17H22O4

Molecular Weight: 290.35

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	6-Dehydrogingerdione sensitizes human hepatoblastoma Hep G2 cells to TRAIL-induced apoptosis via a reactive oxygen species-mediated mechanism that enhances DR5 expression, up-regulates Ser-15 phosphorylation, and triggers nuclear translocation of p53. Abrogation of p53 using small interfering RNA markedly reduces 6-Dehydrogingerdione-induced DR5 and diminishes TRAIL responsiveness. ROS generation accompanies DR5 activation, and pretreatment with N-acetyl-L-cysteine significantly attenuates these apoptotic responses, confirming 6-Dehydrogingerdione acts through p53-dependent and oxidative stress-mediated apoptotic pathways.
Targets(IC50)	Apoptosis, TNF
In vitro	6-Dehydrogingerdione (0-150 $\mu$ M, 24 hours) induced apoptosis in Hep G2 cells in a dose-dependent manner [1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (275.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.4441 mL	17.2206 mL	34.4412 mL
5 mM	0.6888 mL	3.4441 mL	6.8882 mL
10 mM	0.3444 mL	1.7221 mL	3.4441 mL
50 mM	0.0689 mL	0.3444 mL	0.6888 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Chung-Yi Chen, et al. 6-dehydrogingerdione sensitizes human hepatoblastoma Hep G2 cells to TRAIL-induced apoptosis via reactive oxygen species-mediated increase of DR5. J Agric Food Chem. 2010 May 12;58(9):5604-11.

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